

ABSTRACT

RESPIRATORY MASK WITH INSERTED SPACER

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A respiratory mask that conforms to N95 performance and other high performance standards with improved air permeability for improved air circulation. The respiratory mask has a mask body and a headband for putting on the respiratory mask to the face of a wearer, the mask body consisting of an inside mask having two or more filter layers; an outside mask, having two or more filter layers; one or more spacers inserted between the filter layers of the inside mask to generate space between different filter layers of the inside mask; and one or more spacers inserted between the filter layers of the outside mask to generate space between different filter layers of the outside mask so that when air is discharged by the wearer, the spacers together with the filter layers provide a pumping effect mechanism to blow out more carbon dioxide given off by the wearer to the surrounding and to take in more air from the surrounding for the wearer.

Various forms and shapes of the spacer have been proposed.

25 Figure 3a